

Electroluminescence, by M. V. Fock, 8 pp.

RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXXII, 1960,
pp 467-478.

AIP
Sov Phys - Uspekhi
Vol III, No 6

Sci

Jun 61

155,621

Dislocations in Semiconductor Crystals, by E. Yu.
Kokorish, N. N. Sheftal', 10 pp.

RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXXII, 1960,
pp 479-494.

AIP
Sov Phys - Uspekhi
Vol III, No 6

Sci

Jun 60

155,620

Periodic Phenomena in Photosynthesis, by N. M.
Chernavskaya, D. S. Chernavskiy, 16 pp.

RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXXII, 1960,
pp 627-652.

AIP
Sov Phys - Uspekhi
Vol III, No 6

Sci

Jun 61

155,622

Recoilless Resonance Absorption of Gamma Quanta in Solids, by Rudolf L. Mössbauer, 9 pp.

RUSSIAN, par, Uspekhi Fiz Nauk, Vol LXXII, 1960, pp 657-671.

AIP
Sov Phys - Uspekhi
Vol III, No 6

Sci

Jun 61

155,615

On the Weight of Photons, by R. V. Pound, 6 pp.

RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXXII, 1960,
pp 673-683.

AIF
Sov Phys - Uspekhi
Vol III, No 6

Sci

Jun 61

155,617

The Mössbauer Effect, by F. L. Shapiro, 7 pp.

RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXXII, 1960,
pp 685-696.

AIP
Sov Phys - Uspekhi
Vol III, No 6

Sci.

Jun 61

155, 616

Investigation of the Thermal Structure of Helium II
by Scattering of Cold Neutrons, by E. L. Andronikashv:
7 pp.

RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXXII, 1960,
pp 697-710.

AIP
Sov Phys - Uspekhi
Vol III, No 6

Sci

Jun 61

155,618

Characteristic Times of Electronic Processes in
Semiconductors, by G. M. Guro, 17 pp.

RUSSIAN, per. Uspekhi Fiz Nauk, Vol LXXII, 1960,
pp 711-740.

AIP
Sov Phys - Uspekhi
Vol III, No 6

Sci

Jun 61

155,607

On the Relaxation of Nonequilibrium Gas Systems, by
L. V. Leshov, F. A. Savin, 16 pp.

RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXXII, 1960,
pp 741-754.

AIP
Sov Phys - Uspekhi
Vol III, No 6

Bcl

Jun 61

155,609

The Classification of the Elementary Particles, by
D. Ivanenko, A. Startsev, 21 pp.

RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXXII, 1960,
pp 765-798.

AIP
Sov Phys - Uspekhi
Vol III, No 6

Sci

Jun 61

155,608

Seventh All-Union Conference on Low-Temperature Physics
by N. Chentsov, 9 pp.

RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXXII, 1960,
pp 817-826.

AF-147101-

AIP

Sov Phys - Uspekhi
Vol III, No 6

Sci

Jun 61

155,610

Fluctuations of Electromagnetic Waves in the
Troposphere, by F. G. Bass, S. Ya. Braude, E. A.
Kaner, A. V. Man, 55 pp.

RUSSIAN, par, Uspekhi Fiz Nauk, Vol LXXIII,
Part No 1, 1961, pp 89-119.

REF ID: A65111
*REF ID: MCL-1263/1-2

Sci - Geophys, Phys

Jun 61

6-2302

Rukhadze, A. A. and Silin, V. P.
ELECTRODYNAMIQUE DES MILIEUX A DISPERSION
SPATIALE (Elektrodinamika Sred s Prostranstvennoy
Dispersiei) [Electrodynamics of Media with Spatial
Dispersion] tr. by Fedorovskiy. 10 Oct 61 [118]p.
(Russian text included) 49 refs. CEA Trans. no. R 1425
(text in French).
Order from OTS or SDA \$9.60 62-19031

Trans. in French of Uspekhi Fizicheskikh Nauk
(USSR) 1961, v. 74 [no. 2, p. 223]-267.

DESCRIPTORS: *Electric currents, *Electromagnetism,
Monochromatic light, Magnetic fields.

(Physics--Electricity, TT, v. 8, no. 3)

62-19031

I. Rukhadze, A. A.
H. Silin, V. P.
HI. CEA tr. R 1425
VI. Commissariat de l'Energie
Atomique (France)

Office of Technical Services

The Macrotron, by A. P. Grinberg, 66 pp.
Vol LXXV,
RUSSIAN, per, Uspekhi Fiz Nauk, No 3,
1961, pp 121-158. 9676340

FTD-TT-62-211

Sci. - Phys

4 May 62

193,984

Physical Properties of Metals of High Purity, by R. L. Garber,
I. A. Olsin.
RUSSIAN, per, Uspekhi Fiz Nauk, No 5, 1961.

GB/39/M/26037

Sci - M/M

Feb 64

250,507

S-776/62

Third International Symposium on the Investigation
of Cosmic Space (Washington, 1-8 May 1962), by
K. Ya. Kondrat'yev. (SF-2417)

RUSSIAN, per, Uspekhi Fizicheskikh Nauk, Vol LXXVIII,
No 1, Sept 1962, pp 167-179.

*JPRS 16749

Sci/Space Research

6 Nov 62

NEUTRAL HYDROGEN IN THE EARTH'S ENVIRONS AND IN
INTERPLANETARY SPACE, BY V. G. KURT, 36 PP.

RUSSIAN, PER, USPEKHI FIZICHESKIKH NAUK, VOL LXXXI,
NO 2, OCT 1963, PP 249-270.

JPRS 22331

SCI-STAR SCI

DEC 63

244,322

Fifth Interdepartmental Conference on Atmospheric Optics
and Actinometry, by G. Rozenberk, 14 pp.
RUSSIAN, per, Uspekhi Fizicheskikh Nauk, Vol LXXXI, No 3, 1963,
Nov, pp 566-573.

JPRS 23547

Sci - Ear Sci
Mar 64

251, 415

Radio Emissions and the Nature of the Moon, by
V. D. Krotikov, V. S. Troitskiy, 68 pp.
RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXXXI, No 4,
Dec 1963, pp 589-639. 9200180, 9220529
NASA TT F-8837

Sci - ~~XXX~~ E. S. & Ast
Apr 64
U. S. GOVERNMENT ONLY

253,759

State of the Art and Certain New Developments in
the Molecular Beam Method, by V. B. Leonas.
RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXXXII, No 2,
1964, pp 287-323.
NASA TT F-8879

Sci-Phys

Jul 64

U.S. GOVERNMENT ONLY

260,975

Investigation of Cosmic Ray Intensity Fluctuations
in the Stratosphere Caused by Solar Processes,
by A. N. Charkhch'yan, 41 pp.
RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXXXIII, No 1,
May 1964, pp 35-62.
JPRS 25641

NASA-TT-F-9027 (U.S. Government Only)

Sci - ES & Ast
Aug 64

264,669

Yakov Borisovich Zel'dovich Combustion Studies,
by Ya. A. Amorosinskiy, D. A. Frank-Kamenetskiy, 21 pp.
RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXXXII, No 3, 1964,
pp 567-574. 9656376
FBI C 881-T64-44

Sci - Phys
Apr 65

276,366

Investigations of the Nuclear Component of
Cosmic Rays Made on Soviet Satellites and
Rockets, by V. L. Ginzburg, L. V. Kurnosova,
et al, 100 pp.
RUSSIAN, per, Uspekhi Fizik Nauk, Vol LXXXII,
No 4, 1964, pp 585-647.
JPRS 25029

Sci - Aerospace
Jun 64

261,021

Quasi-Optical Methods for the Shaping and Transmission of Millimetric Waves, by B. Z. Katsenelenbaum.
RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXXXIII, No 1,
1964, pp 81-105.
NASA TT F-9028

Sci-Phys
Oct 64
U.S. GOVERNMENT ONLY

267-568

Stimulated Combination Scattering of Light, by
V.A. Zubov, M.M. Sushchinskiy, et al.
RUSSIAN, per, Uspekhi Fizicheskikh Nauk, Vol 85,
No 2, 1964, pp 197-222. P100017466
FTD-TT-65-49

Sci/Physics
Sep 66

309,382

The Tenth All-Union Conference on Low Temperature Physics, 47 pp.
RUSSIAN, per, Aspekty Fizicheskikh Nauk, Vol 83,
No 2, 1964, pp 361-369. P100017466
FTD-IR-65-49

Sci/Physics
Sep 66

309,383

JPRS CSO: 22057

22057

18 Oct 67

Uspekhi Fizicheskikh Nauk, Vol 84, No 3,
Nov 1964, pp 431-450, by V.S. Vavilov,

"Nature and Energy Spectrum of Radiation
Perturbations in Semiconductors"

RUSSIAN, per,

All-Union Conference on Dislocations and
Mechanical Properties of Crystals, by M. V.
Klasman-Meklyudova, 6 pp.

RUSSIAN, per, Uspekhi Fizicheskikh Nauk,
Vol 81, No 2, Oct 1964, pp. 363-365.

JPRS 30496

USSR
Sci-Misc
Jun 65

231,603

Preface to Volume I and II of the Russian Edition
of the Book "Advances in Cancer Research", by
L. M. Shabat, 17 pp.

RUSSIAN, bk, Uspokhi v Izucheni Raka, 1955,
Vol I, pp 3-6; Vol II, pp 3-8. CIA 197112

RT-511
NTH

Sci - Medicine, oncology
Sep 55 CTS/ltm

38,514

Program of Thermal Production Method for
Phosphorus and Phosphoric Acid, by N. S.
Bakker and A. I. Sherechenovskiy, 19 pp.

RUSSIAN, part, Uspekh Khim., Vol IV, 1934,
pp 610-624.

SLA R-2546

Sci

Aug 58

72, 763

Plets, B. M.
REVIEW OF ORGANIC COMPOUNDS OF PHOSPHO-
RUS. [1951] [59] p. 244 refs.
Order from LC for SLA m153.60, ph\$9.30 61-10851

Trans. of Uspekhi Khimii (USSR) 1935, v. 4, no. 4,
p. 573-609.

(Unannounced)

61-10851

1. Phosphorus compounds
(Organic)--Properties
1. Plets, B. M.

10851

Office of Technical Services

Carbon Suboxide, by M. V. Vol'kenshtein, 19 pp.
RUSSIAN, part, Uspokh i Khim, Vol IV, 1935, pp 610-31.

NOT RELEASABLE TO FOREIGN NATIONALS

CIA/TDD KK-437

Sci - Chen
Apr 58

IAC INTERNAL USE ONLY

62,457

Surface Tension of Molten Metals and Alloys by
V. L. Semakchenko & N. L. Pokrovski, 66 pp.

RUSSIAN, in part, Uspekhi Khimii, Vol VI, No 6,
1937, pp 777-821.

CIA 1362

REL Tr 190

RT-1002

178/60

(NY-9689)

Free Hydroxyl, by V. N. Kondrat'yev, 90 pp.

RUSSIAN, per, Uspekh Khim, Vol VIII, No 2, 1969,
pp 195-240.

JPRS 5420

Sci - Chem

Oct 60

127, 269

Primary Products of the Radiolysis of Water
and Their Reactivities, by A. K. Pikaven.
RUSSIAN, per, Uspekhi Khimii, Vol 8, No 36,
pp 1427-1456.
*ACSI J-4838
*FSTC HT-23-136-68

Sci-Chem
May 68

On Synthetic Diamonds, by O. I. Leipunski, 15 pp.
UNCLASSIFIED

Full translation.

RUSSIAN, per, Uspekhi Khim., Vol VIII, No 10, USSR,
1939, pp 1519-1934.

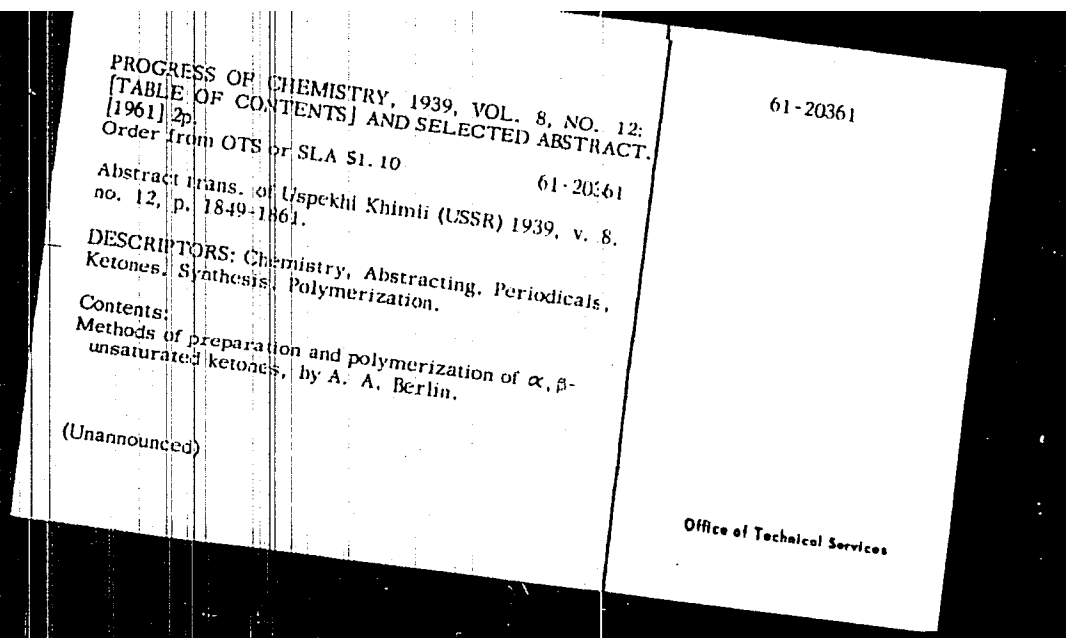
Navy Tr 609/MRI. 348

AT-1000 Jun 52 CTS

Scientific - Chemistry

DEX

AT-6611 R. H. AT-3896



Progress in the Chemistry of Scandium in the Past
Ten Years, by V. V. Shcherbrina, 10 pp.
UNCLASSIFIED

RUSSIAN, per, Uspekhi Khim, Vol. IX, 1933 - 1937,
1940.

CIA/FDD/X-917

Scientific - Chemistry
JAN 53 CTS/DEX

2680

Petrov, A. D. and Azatyan, V. D.
SYNTHESIS OF HYDROCARBONS OF THE ACETYLENE SERIES. [1961] 14p. 115 refs.
Order from OTS or SLA \$1.60 61-16870

Trans. of Uspekhi Khimii (USSR) 1940, v. 9, no. 5,
p. 498-521.

DESCRIPTORS: *Hydrocarbons, *Acetylenes,
Synthesis.

The first part of a program of synthesis of acetylenes and evaluation of their antiknock properties is reported. The literature on the subject is reviewed, physical constants of 57 known acetylenes are tabulated and a bibliography given comprising 115 items including unpublished work of the author and his co-workers. Blending octane numbers of five acetylenes were obtained. (Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-16870

I. Petrov, A. D.
II. Azatyan, V. D.

Office of Technical Services

Petroleum as a Source of Raw Material for
Preparation of Rubber-Foaming Compounds, by
H. A. Lur'ye.

RUSSIAN, per, Uspekhi Khim, Vol. IX, No 6, 1940,
pp 609-628.

OTS 61-16874

189,527

Sci
Mar 62

Vol VII, No 2

Shatenshteyn, A. L.
CHIMIE DES SOLUTIONS DANS L'AMMONIAC
LIQUIDE, tr. by M. Fedorovsky. 27 Oct 60 [14]p.
21 refs. CEA Trans. no: R 1052 (text in French).
Order from OTS or SLA \$1.60 61-15795

Trans. in French of Usp[ekhi] Khim[ii] (USER) 1940
[v. 9] p. 950-954.

DESCRIPTORS: *Ammonia, *Liquefied gases, Gas,
Solubility, *Solutions, Solvent action.

61-15795

I. Shatenshteyn, A. L.
II. CEA-tr-R1052
III. Commissariat à l'Énergie
Atomique (France)

10370.

Office of Technical Services

(Chemistry--Physical, TT, v. 6, pp. 2)

Plate, A. F.
CATALYTIC AROMATIZATION OF PARAFFIN HY-
DROCARBONS. 1944. 200 p. 2 refs.
Order from OTS or SIA \$2.00 61-16877

Trans. of Russian Academy (USSR) 1946, v. 9, no. 11/12,
p. 1301-1332.

DESCRIPTORS: *Hydrocarbons. *Aliphatic compounds.
Synthesis, Catalysis.

The experimental material on catalytic aromatization of
paraffins reported in the scientific and patent literature
up to 1946 is reviewed, giving a brief history of the
problem and citing some early Russian work on the sub-
ject. This material is far from exhausting the problem,
and much information in this field remains unstated or
hidden behind patent claims. (Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-16877

1. Plate, A. F.

Office of Technical Services

Progress in the Chemistry of Scandium During the
Last Ten Years; by V. V. Tscherbina, 17 pp.

UNCLASSIFIED

RUSSIAN, no par, Lapokh Khim. Vol IX, 1940, pp 1333-.

AEC 3111.

Sci - Chem

Feb 58

58, 194

61-20359

PROGRESS OF CHEMISTRY, 1941, VOL. 10, NO. 1:
[TABLE OF CONTENTS] AND SELECTED AB-
STRACT. [1961] 3p. 15 refs.

Order from OTS or SLA \$1.10

61-20359

Abstract trans. of Uspekhi Khimii (USSR) 1941, v. 10,
no. 1, p. 1-5.

DESCRIPTORS: Chemistry, Abstracting, *Oxidation,
*Carbon compounds, *Monoxides.

(Chemistry, TT, v. 7, no. 5)

Office of Technical Services

Balandin, A. A.
CATALYSIS AND THE CHANGE OF MOLECULAR
FORM. [1961] 34p. 132 refs.
Order from OTS or SLA \$3.60 61-16915

Trans. of Uspekhi. Khimii (USSR) 1941, v. 10,
p. 262-293.

DESCRIPTORS: *Catalysis, Molecular structure,
Hydrocarbons, Dehydrogenation, Hydrogenation,
*Molecular isomerism, *Benzene.

An account of the researches in the application of catalysis to organic chemistry pursued by N. D. Zelinskii during 57 years up to 1941 is given, including investigations of some of his students. The investigations of his school are reviewed pertaining to the phenomenon of selective dehydrogenation leading to formation of aromatics from naphthenes at 300°C, but leaving unaffected those naphthenes which cannot be converted into (Chemistry--Organic, TT, v. 6, no. 8) (over)

61-16915

1. Title: Naphthene
1. Balandin, A. A.

105125

Office of Technical Services

Frank-Kamenetskii, D. A.
KINETICS OF COMPLEX REACTIONS. I. HOMO-
GENEOUS REACTIONS. [1962] 9p. 88 refs.
Order from OTS or SLA \$1.10 62-10887

[Condensed] transl. of Uspekhi Khimii (USSR) 1941,
v. 10, no. 4, p. 373-415.

DESCRIPTORS: *Reaction kinetics, *Hydrocarbons,
Polymerization, Decomposition, Catalysis,
Bibliography.

(Chemistry--Physical, TT, v. 8, no. 7)

62-10887

I. Frank-Kamenetskii, D. A.
II. Title: Homogeneous ...

Office of Technical Services

Frank-Kamenetskii, D. A.
KINETICS OF COMPLEX REACTIONS. II. HETERO-
GENEOUS REACTIONS. [1961] 4p. 37 refs.
Order from OTS or SLA \$11.10 62-10888

Condensed trans. of Uspekhi Khimii (USSR) 1961,
v. 10, no. 5, p. 544-558.

DESCRIPTORS: *Reaction kinetics, *Chemical
reactions.

(Chemistry--Physical, TT, v. 7, no. 12)

62-10888

I. Frank-Kamenetskii, D. A.
II. Title: Heterogeneous ...

Office of Technical Services

Bogdanov, I. F.
ACADEMICIAN ALEXSEI EVGRAFOVICH FAVOR-
SKII, STALIN PRIZE LAUREATE. [1961] 4p. 14 refs.
Order from CTS or SLA \$1.10 62-10889

Condensed trans. of Uspokhi Khimii (USSR) 1941,
v. 10, no. 6, p. 654-66..

DESCRIPTORS: *Rubber, *Isoprene, Acetylenes,
Isomeric transitions, Polymers.

(Chemistry)--Organic, TT, v. 7, no. 12)

62-10889

I. Bogdanov, I. F.
II. Favorovskii, A. E.

Office of Technical Services

Spontaneous Fission of Uranium, by L. I.
Rusinov, 11 pp.

RUSSIAN, per, Uspekhi Khim, Vol X, 1932,
pp 662-670.

ABC CP-2250

Sci - Super Chem
20 Oct 60

129,740

Kuz'minski, A. S.
OXIDATION OF RUBBER POLYMERS. [1961] 4p.
27 refs.
Order from OTS on SLA \$1.10 62-10890
Condensed trans. of Uspehi Khimii (USSR) 1961,
v. 10, no. 7, p. 825-844.

DESCRIPTORS: *Polymers, *Rubber, Oxidation,
Oxygen, Diffusion, Sulfur, Vulcanization, Rubber
plasticizers.

(Chemistry--Organic, IT, v. 7, no. 12)

62-10890

I. Kuz'minski, A. S.

Office of Technical Services

Plate, A. F.
METHODS OF PREPARATION OF TOLUENE. [1961]
25p. 133 refs.

Order from OTS or SLA \$2.60

61-16977

Trans. of Uspekhi Khimii (USSR) 1943, v. 12,
p. 189-206.

DESCRIPTORS: *Toluenes, Synthesis.

A review of Russian and non-Russian published information on the methods of preparation of toluene is given, including its isolation from coal tar and from natural petroleum, as well as production by pyrolysis of natural hydrocarbon gases, processing of cracked gases, pyrolysis of fractions of petroleum oil, destructive hydrogenation of coal and shales, conversion of other aromatics, catalytic dehydrogenation of methylcyclohexane and catalytic cyclization of heptane. The highest yield of coal tar toluene corresponds to a coking temperature of 700 or 800°. (Author)
(Chemistry--Organic, TT, v. 6, no. 7)

61-16977

I. Plate, A. F.

151.6

Office of Technical Services

Frost, A. V.
CATALYTIC AND CONTACT METHODS OF DESULFURIZATION OF OIL PRODUCTS. [1961] 6p. 40 refs.
Order from OTS or SLA \$1.10 61-1692b

Condensed trans. of Uspekhi Khimii (USSR) 1943,
v. 12, p. 209-215.

DESCRIPTORS: *Oils, *Sulfur, Separation, *Catalysts,
*Hydrogenation, Decomposition, Gasoline, Kerosene,
Impurities.

A review of methods of desulfurization is given, including hydrogenation, thermal decomposition of sulfur compounds, bauxite treatment, desulfurization with phosphoric acid on coke, treatment with oxides of aluminum or zinc, clay refining, copper salt process and treatment with iron ore. Concerning the last mentioned method, it is asserted that iron-containing contacts may give a complete desulfurization of oil distillates. (Engineering-Chemical, TT, v. 6, no. 8) (over)

61-16926

1. Title: Desulfurization
1. Frost, A. V.

61-16926

Office of Technical Services

Uspekhi Khimii, XII, No. 4/1948,
p. 253

V. V. Lebedinskiy, "Ya. K. Syrkin"

NOV 1 1950

Usp Klin, No 7, 1943 P. 295-255

"Stalin Laureates in Chemistry
for 1943" V.V. Pedinskiy

NOV 1 1950

Electrokinetic Phenomena Applied to the Electro-
Dialysis Process. by I. I. Zhukov.
RUSSIAN, per, Uspokhi Khimii, Vol 12, No 4, 1943,
pp 265-286.
NLL 5828.4F (11848)

Sci - Chem

Aug. 67

Sept.

338,651

178/60

(NY-4708)

Chemiluminescence of Flames, by V. Kondrat'yev,
25 pp.

RUSSIAN, per, Uspekhi Khim, Vol XII, No 4, 1943,
pp 308-317.

JPRS 5539

Sci - Chem

Sep 60

126,087

TT-63-24283

Finkel'shtein, B. N.
VISCOSITY OF SOLUTIONS OF ELECTROLYTES
Bertha P. Klenova, tr. 13 Sep 62, 11p [TVA]-3992.
Order from OTS, SLA, or ETC \$1.60 TT-63-24283

Trans. of Uspekhi Khimii (USSR) 1943, v. 12,
p. 472-479.

DESCRIPTORS: *Electrolytes, Solutions, Viscosity,
Equations.

I. Finkel'shtein, B. N.
II. TVA-3992
III. Tennessee Valley
Authority,
Wilson Dam, Ala.

(Chemistry--Physical, TT, v. 11, no. 2)

Office of Technical Services

Petrov, A. A.
RECENT PROGRESS IN THE FIELD OF THE
CHEMISTRY OF HALOGEN DERIVATIVES OF
1,3-DIENES. [1961] 37p. 234 refs.
Order from OTS or SLA \$5.60 61-16892

Trans. of Uspekhi Khimii (USSR) 1944, v. 13,
p. 203-233.

DESCRIPTORS: *Halogen compounds, *Ethylenes,
Physical properties, Chemical properties.

Synthesis and physical and chemical properties of
halogenated derivatives of 1,3-dienes are reviewed

(Chemistry--Organic, TT, v. 6, no. 8)

61-16892

I. Petrov, A. A.

105118

Office of Technical Services

Usp. Khim.

Vol 13, pp 234-52 (1944)

Internal Rotation + Rotational Barrierism

M. V. Val'Kenshtein.

HEC Vol 3, 3
P. 234-52

Balandin, A. A.
D. I. MENDELEEV, THE PERIODIC SYSTEM OF
ELEMENTS AND CATALYSIS. [1961] 4p. 36 refs.
Order from OTS or SLA \$1.10 62-10823

[Condensed] trans. of Voprosy Khimii (USSR) 1944,
v. 13, no. 5, p. 365-374.

DESCRIPTORS: *Chemical elements, *Catalysis,
*Periodic variations, Isotopes, Metals, Lattices, Ex-
change reactions, Hydrogen.

(Chemistry--Physics, TT, v. 7, no. 11)

62-10823

I. Title: Mendeleev's periodic
system

I. Balandin, A. A.
II. Mendeleev, D. I.

Office of Technical Services

Elagina, N. V. and Eldus, Ya. T.
REACTION BETWEEN CARBON MONOXIDE AND
ORGANOMAGNESIUM COMPOUNDS. [1961] 3p.
26 refs.

Order from OTS or SLA \$1.10

62-10824

[Condensed trans. of Uspekhi Khimii (USSR) 1944,
v. 13, no. 5, p. 375-388.]

DESCRIPTORS: *Carbon compounds, *Monoxides,
*Organic compounds, *Magnesium compounds,
Chemical reactions, Grignard reagents.

(Chemistry--Organic, TI, v. 7, no. 11)

62-10824

I. Elagina, N. V.
II. Eldus, Ya. T.

Office of Technical Services

Nazarov, I. N.
CHEMISTRY OF VINYLETHINYLCARBINOLS. [1961]
37p. 7+ refs.
Order from OTS or SLA \$3.60

61-20131

Trans. of Uspekhi Khimii (USSR) 1945, v. 14 [no. 1]
p. 3-41.

DESCRIPTORS: *Carbinols, *Vinyl radicals, Acetylenes, Condensation, Synthesis, Polymerization, Dehydration, Hydrogenation, Isomeric transitions, *Hydrocarbons, Ethers, Ketones, Diene syntheses, *Ethy-
nyl radicals.

A review of this field is made, covering 60 references, for the most part studies by the author and his collaborators and dealing with synthesis of these carbinols, their physical constants, dehydration to hydrocarbons of the divinylacetylene series, their esterification, (Chemistry--Organic, TT, v. 7, no. 2) (over)

61-20131

I. Nazarov, I. N.

Office of Technical Services

Bag, A. A. and Egupov, T. P.
DETERGENTS FROM HIGH MOLECULAR PRIMARY
ALCOHOLS. [1961] (3) p. 25 refs.
Order from OTS or SLA \$1.10 62-10825

[Condensed] trans. of Uspekhi Khimii (USSR) 1945,
v. 14, no. 1, p. 56-64.

DESCRIPTORS: *Detergents, Wetting agents,
*Alcohols, Molecular structure, Catalysts.

(Engineering--Chemical, TT, v. 7, no. 11)

62-10825

I. Bag, A. A.
II. Egupov, T. P.

Office of Technical Services

Moldanukhin, M. P.
USE OF SIMPLE OPTICAL METHODS IN GROUP
ANALYSIS OF GASOLINES. [1961] 4p. 9 refs.
Order from OTS no. SLA 57.10 62-10826

[Condensed] transl. of Nepekha Khimol (USSR) 1945, v. 14, no. 2, p. 148-150.

DESCRIPTORS: *Gasoline; Hydrocarbons; Quantitative analysis; Raman spectroscopy; Refractive index.

(Materials--Fuels, TT, v. 7, no. 11)

62-10826

I. Moldanukhin, M. P.

Office of Technical Services

Le'chuk, S. L., Balandin, A. A., and Vaskevich, E. N.

"SKELETON" CATALYSTS AND THEIR APPLICATION IN ORGANIC CHEMISTRY. [1961] 17p. 187 refs.

Order from OTS or SLA \$1.60

62-10827

[Condensed] transl. of Uspekhi Khimii (USSR) 1945, v. 14, no. 3, p. 35-212.

DESCRIPTORS: Catalysts, Hydrogenation, Oxidation, Condensation reactions, Catalysts, Dehydration, Organic compounds.

(Chemistry--Organic, IT, v. 7, no. 11)

62-10827

I. Le'chuk, S. L.
II. Balandin, A. A.
III. Vaskevich, E. N.

Office of Technical Services

Zhabrova, G. M.
MEETING ON METHODS OF INVESTIGATION OF
CATALYSTS. [1961] 3p. 1 ref.
Order from OTS or SLA \$1.10 62-10828

[Condensed] trans. of Uspekhi Khimii (USSR) 1945,
v. 14, no. 3, p. 255-258.

DESCRIPTORS: *Catalysts, Electron microscopy,
Asbestos fibers, Electrochemistry, Conferences.

(Chemistry--Physical, TT, .v. 7, no. 11)

62-10828

I. Zhabrova, G. M.

Office of Technical Services

Ketene, by A. Y. Yakubovich, 42 pp.

RUSSIAN, part, Uspekhi Khim., Vol XIV, No 4, 1945.
pp 301-329.

SLA R-1040

Sci - Chemistry
Mar 58

59,764

Kiselev, A. V.
NEW ADSORPTION METHODS OF DETERMINATION
OF ADSORBENT SURFACES. [1961] 10p. 86 refs.
Order from OTS or SLA \$1; 10 62-10829

[Condensed] transl. of Usp. Khim. (USSR) 1945,
v. 14, no. 1, p. 367-394.

DESCRIPTORS: *Surfaces, *Adsorbents, Catalysts,
Surface area, *Adsorption.

(Chemistry-Physical, FT, v. 8, no. 1)

62-10829

I. Kiselev, A. V.

Office of Technical Services

Tsiklis, D. S.
RESEARCH UNDER HIGH PRESSURES. [1961] 15p.
138 refs.
Order from OTS or SLA \$2.60 62-10830

[Condensed] trans. of Uspekhi Khimii (USSR) 1945,
v. 14, no. 6, p. 476-500.

DESCRIPTORS: *High pressure research, Gases,
Liquids, Solubility, Solids, Surface tension, Chemi-
cal reactions, Polymerization.

(Chemistry--Physical, TT, v. 7, no. 11)

62-10830

I. Tsiklis, D. S.

Office of Technical Services

Frost, A. V.
FUNCTION OF CLAYS IN FORMATION OF OIL IN
THE EARTH'S CRUST. [1961] 8p. 34 refs.
Order from OTS or SLA \$1.10 62-10831

[Condensed] trans. of Uspekhi Khimii (USSR) 1945,
v. 14, no. 6, p. 501-509.

DESCRIPTORS: *Clays, *Oils, Earth, Hydrocarbons,
Petroleum, Geology.

(Earth Sciences--Geology, TT, v. 7, no. 11)

62-10831

I. Frost, A. V.

Office of Technical Services

Sopetski Khim, Vol XV, p. 63-80 (1946)

*"Indications of Chain Reactions by Nitric
Oxide"*

by V.E. Saldanovskii

Atk Dr # 205

Available @ Brookhaven

21 June, 1950.

Korshak, V. V. and Kolesnikov, G. S.
TETRA-ETHYLENOD (Tetra-ethyl Lead) 36p.
146 refs. BFWL: 128. (text in Dutch).
Order from OTS or ETC \$2.55 61-17733

Trans. of Lepkii Khimii (USSR) 1946, v. 15, p. 325-342.

DESCRIPTORS: Ethyl radicals, Lead.

61-17733

- I. Korshak, V. V.
- II. Kolesnikov, G. S.
- III. BFWL-128
- IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

Office of Technical Services

Shulkin, N. I.
PREPARATION OF AROMATIC HYDROCARBONS
FROM OIL BY CONTACT CATALYTIC METHODS.
[1961] 9p. 37 refs.
Order from OTS or SLA \$1.10 62-10832

[Condensed] trans. of Uspekhi Khimii (USSR) 1946,
v. 15, no. 3, p. 343-358.

DESCRIPTORS: *Hydrocarbons, Production,
Petroleum, Gasoline, Kerosene, Pyrolysis, Decom-
position, Dehydrogenation, Platinum, Catalysts,
Alumina-nickel catalysts, Catalysis.

(Chemistry--Organic, TT, v. 7, no. 12)

62-10832

I. Shulkin, N. I.

Office of Technical Services

Petraethyllead, by V. V. Morshak, G. S.
Kolesnikov, 35 p.

RUSSIAN, per, Uspekhi Khimii, 1946, Vol XV, No 3,
pp 326-342.

BLA 59-17242

Sci
Dec 59
Vol 2, No 6

103, 944

Shuikin, N. J.
DE KATALYTISCHE BEREIDING VAN AROMATISCHE
KOOLWATERSTOFFEN UIT AARDOLIEPRODUCTEN
(Contact-Catalytic Production of Aromatic Hydrocar-
bons from Petroleum). 26p. 37 refs. MTWL: 33.
(text in Dutch).
Order from OTS or ETC \$2.37 61-17677

Trans. of Vyspekhi Khimii (USSR) 1946, v. 15,
p. 343-358.

DESCRIPTORS: Petroleum, Monocyclic compounds,
*Hydrocarbons, Catalysis, *Polymerization.

61-17677

- I. Shuikin, N. J.
- II. MTWL-33
- III. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Chemical Bases for Present-Day Trends in
Investigation of Medical Compounds, by A. G.
Matradze, 43 pp. N. H. ...

RUSSIAN, bino per, Uspekh Khim, Vol XV, No 4,
1946, pp 427-455.

CIA 60-11977
CIA/FDD/X-1457

INT

Scientific - Chemistry, chemotherapy

13, 721

Blizhenko, by M. Ye. Dynskina, T. K. Sirkin,
14 pp.

RUSSEIAN, per, Uspekhi Khim, Vol XVI, No 1,
1947, pp 25-68.

ELA 60-13885

Sci.
26 May 62
Vol IV, No 8

198, 221

Voyutskii, S. S. and Zaitseva, M. A.
SOLUBILISATIE EN HAAR BETEKENIS IN DE EMUL-
SIEPOLYMERISATIE (Solubilization and its Significan-
ce in Emulsion Polymerization) 22p. 35 refs.
MTWL: 31. (text in Dutch).
Order from OTS or ETC \$1.89

61-17675

Trans. of Uspekhi Khimii (USSR) 1947, v. 16,
p. 69-82.

DESCRIPTORS: *Polymerization, Colloids, Solubility,
*Hydrocarbons, Catalysts.

61-17675

- I. Voyutskii, S. S.
- II. Zaitseva, M. K.
- III. MTWL-31
- IV. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Solodar, I. S. and Markin, V. V.
VORDERINGEN OP HET GEBIED VAN DE CHLORE-
RING VAN KOOLWATERSTOFFEN IN DE LAATSTE
10 JAAR (Advances in Chlorination of Hydrocarbons
in the Last Ten Years) 41p. 130 refs. MTWL: 22.
(text in Dutch).

Order from OTS or ETC \$2.67

61-17686

Trans. of *Izvestiya Khimii* (USSR) 1947, v. 16,
p. 83-109.

DESCRIPTORS: *Hydrocarbons, *Chlorination,

61-17686

- I. Solodar, I. S.
- II. Markin, V. V.
- III. MTWL-22
- IV. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Bochvar, D. A.
HET GRONDPRIJNCE EN DE GRONDBEGRIJPPEN VAN
DE THEORIE DER RESONANTIE. I. HET GROND-
PRINCE VAN DE THEORIE DER RESONANTIE EN
ZIJN BEWIJSGRONDEN (The Principle and Fundamen-
tal Concepts of the Resonance Theory. I. The Princi-
ple of the Resonance Theory and its Arguments) tr. by
S. Kruger, 17p, 13 refs. MTWL: 4. (text in Dutch).
Order from OTS or ETC \$1.85 61-17703

Trans. of Uspekhi Khimii (USSR) 1947, v. 16,
p. 129-130.

DESCRIPTORS: "Resonance, Theory, "Chemical bonds

61-17703

- I. Bochvar, D. A.
- II. MTWL.-4
- III. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Catalytic Synthesis of Hydrocarbons From CO and H₂,
by V. A. Kharzhevskii, 29 pp.

RUSSIAN, per, Uspekhi Khimii, Vol XVI, No 3, 1947,
pp 327-352.

Sci Trans Center RT-~~58~~562

Scientific - Chemistry
CTS/DEX

10,969

Addition of Phosphorus Halides to Organic Compounds,
by M. I. Kabachnik, 22 pp.

RUSSIAN, per, Uspekhi Khimii, Vol XVI, No 4, 1947,
pp 403-421.

Sci Trans Center RT-563

Scientific - Chemistry
GTS/DEX

10,98.3

11 757

GE-1

RYABCHIKOV D. I., TERENT'EVA E. A.

Method of separation of rare-earth elements

Verfahren der Trennung von Elementen der seltenen Erden

Uspekhi Khim., 16, No. 4, 460-489 (1947) - German

E u r a t o m

Yakubovich, A. Ya. and Zinov'ev, Yu. M.
SULFOCHLORERING. JEEN NIEUWE METHODE VOOR
HET SULFONEREN VAN ALKANEN; EIGENSCHAPPEN
EN TOEPASSING VAN ALKAANSULFOCHLORIDEN
(Sulfochlorination, a New Method of sulfonation of
Alkanes. Properties and Uses of Alkane Sulfochlorides)
25p, 40 refs. MTWL: 21. (text in Dutch).
Order from O'S or ETC \$1.95

61-17685

Trans. of Uspekhi Khimii (USSR) 1947, v. 16,
p. 581-598.

DESCRIPTORS: "Hydrocarbons, Sulfur compounds,
Chlorides, "Sulfonates.

61-17685

- I. Yakubovich, A. Ya.
- II. Zinov'ev, Yu. M.
- III. MTWL-21
- IV. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Topchiev, A. V. and Paushkin, Ya. M.
BOORFLUORIDE VERBINDINGEN ALS KATALYSATO-
REN IN DE ALKYLIERINGS- EN POLYMERISATIE-
REACTIES (Boron Fluoride Compounds as Catalysts
in Alkylation and Polymerization Reactions). 48p.
(1p. foreign text included). 98 refs. MTWL: 14.
(text in Dutch).

Order from OTS or ETC \$2.70

61-17698

Trans. of Uspekhi Khimii (USSR) 1947, v. 16,
p. 664-689.

DESCRIPTORS: *Boron compounds, *Fluorides,
Catalysts, Polymerization, Alkyl radicals.

61-17698

- I. Topchiev, A. V.
- II. Paushkin, Ya. M.
- III. MTWL-14
- IV. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

The Mechanism of the Synthesis of Aliphatic Hydrocarbons by the Contact Hydrogenation of Carbon Monoxide, by N. P. Dzhigalov, 11 pp.

RUSSIAN, per, Uspekhi Khim, Vol IX, No 6, 1940, pp 673-681.

CIA/PDD/X-1158

Scientific - Chemistry
CPS/DMK

Available in CIA Library
at Ohio State University
C 27830

8171

Vinogradov, G. V. and Ivanova, T. N.
FLUOR KOOLOSTOFVETTEN EN -SMEERMIDDELEN
(Fluorcarbon Fats and -lubricants). 9p. 5 refs.
MTWL-7. (text in Dutch).
Order from OTS: ETC \$1.55

61-17706

Trans. of, *Spektr Khimii* (USSR) v. 16, 1947, p. 744.

DESCRIPTORS: Lubrication, Oils, Fats, *Fluoro-
carbons

61-17706

- I. Vinogradov, G. V.
- II. Ivanova, T. N.
- III. MTWL-7
- IV. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Vinogradov, G. V. and Ivanova, T. N.
FLUORINATED OILS AND GREASES. [1963] [7p]
5 refs
Order from OTS, SLA, or ETC \$1.10 TT-63-20806

Trans. of Uspekhi Khimii (USSR) 1947, v. 16, no. 5,
p. 744-748.
Another trans. is available in Dutch from OTS or ETC
\$1.55 as TT-61-17706, MTWL-7, 9p.

DESCRIPTORS: Oils, *Fluorocarbons, Greases,
Fluorination, Chemical properties, Polymers, Poly-
merization plastics, *Lubricants,

(Materials--Lubricants, TT, v. 11, no. 4)

TT 63-20806

I. Vinogradov, G. V.
H. Ivanova, T. N.

Office of Technical Services

Fuchs, N. A.
DE VERDELINGSCHROMATOGRAPHIE EN DE TOE-
PASSING ERVAN IN DE ANALYTISCHE CHEMIE
(Distribution Chromatography and the Application of
it in Analytical Chemistry). 20p. 23 refs. MTWL: 20.
(Text in Dutch).
Order from OTS or ETC \$1.85

61-17694

Trans. of Uspekhi Khimii (USSR) 1948, v. 17, p. 45-54

DESCRIPTORS: Chemical Analysis, Chromatographic
analysis, *Distribution.

61-17694

- I. Fuchs, N. A.
- II. MTWL-20
- III. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Rozengart, M. I.
PRINCIPES EN METHODEN VAN RECTIFICATIE OP
LABORIUMSCHAAL (Principles and Methods of
Laboratory Rectification). 47p. 82 refs, MTWL: 142.
(text in Dutch).
Order from OTS or ETC \$2.77

61-17712

Trans. of Uspekhi Khimii (USSR) 1948, v. 17,
p. 204-234.

DESCRIPTORS: *Distilling plants, Laboratory
equipments.

61-17712

- I. Rozengart, M. I.
- II. MTWL-142
- III. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Concept of Condensation and Polymerization in Organic
Chemistry, by D. M. Vaskevich, A. A. Ralandin.

Full translation.

RUSSIAN, no per, Uspekhi Khim, Vol XVII, No 3, 1948,
pp 346-350.

ABC Tr 1187

Sci - Chem

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Vladimir Mikhailovich Rodionov, Academician, by
V. M. Belov, E. M. Bogoslovskii, A. I. Korolev,
A. M. Fedorova, and M. M. Shengyakin, 45 pp, (AP 81037)/

RUSSIAN, par, Uspekhi Khimii, Vol XVII, No 5, 1948,
pp 521-543.

AMC F-TS-6699-RE

USSR

Biographic -- Vladimir ~~Mik~~ Mikhailovich Rodionov

Elementary Particles and Their Interaction by
D. D. Ivanenko (Moscow), 39 pp.

RUSSIAN, bimo per, Uspekhi Khimii, Vol XVII, No 5,
1948, pp 545-564.

AMC F-15-6699-RE

USSR

Scientific - Physics, chemistry, interaction,
particles

Chemistry of Antibiotic Substances, by Y. O. Gabel
(Markov), 26 pp. (AF 81037).

RUSSIAN, trans per, Uspekhi Khimii, Vol XVII, No 5,
1948, pp 565-577.

ANC F-TS-6699-RE

USSR

Scientific - Chemistry, antibiotic, substances

On Some Regularities in the Field of Organometallic
Compounds, by K. V. Astakhov, A. M. Kabakchi (Moscow),
15 pp. (AF 81037).

RUSSIAN, bimo per, Uspekhi Khimii, Vol XVII, No 5,
1948, pp 578-584.

ANC F-15-6699-PE

USSR

Scientific - Chemistry, compounds, organometallic